

# Instruction manual for RPX 51-HL EMCT Electronic Test Buzzer



- 1 Battery box
- 2 Test buzzer
- 3 Measuring line
- 4 Test terminal
- 5 Pluggable test terminal

## Table of contents

<b>1</b>	<b>Introduction</b> .....	<b>1</b>	<b>3.1</b>	Bringing into service .....	<b>2</b>
1.1	Application .....	1	3.2	Continuity check .....	2
1.2	Remarks .....	1	<b>4</b>	<b>Maintenance</b> .....	<b>3</b>
1.3	Scope of delivery .....	2	4.1	Battery change .....	3
<b>2</b>	<b>Safety instructions</b> .....	<b>2</b>	<b>5</b>	<b>Technical data</b> .....	<b>3</b>
<b>3</b>	<b>Instruction</b> .....	<b>2</b>	<b>EC Declaration of Conformity</b> .....		<b>4</b>

## 1 Introduction

### 1.1 Application

The RPX 51-HL Electronic Test Buzzer can be used for the ohmic continuity check of switches, lines, circuits, fuses, lamps, diodes, transistors, polarity tests, coils, resistors, transformers, relays and contractors. Resistance test range is between 0 and 1 MΩ.

- Protected against external voltage
- Test range: low or high ohmic
- Test terminal pluggable
- Red plastic housing shockproof

### 1.2 Remarks

In this instruction manual noted remarks:



**Warning:** Warns of a danger which could bring injuries.



**Indication:** Has to be considered!




**Important:** Important information!

## 1.3 Scope of delivery

Included in delivery is:

- 1x RPX 51-HL EMCT Electronic Test Buzzer
- 1x pluggable test terminal
- 1x instruction manual

## 2 Safety instructions

 The remarks noted in this instruction manual are inevitable for a save application of the test buzzer. You are advised not to use the test buzzer before reading the safety instructions. Disobeying the instructions can result in injury!



The object under test has to be in a tensionless state.



The test buzzer is not qualified to be used in energized objects.



The measuring lines and test terminals may only be touched at the intended handles.



The test buzzer may only be used in the denoted test ranges.



Before opening the battery box the test buzzer has to be disconnected from all the measuring circuits.



For use by competent persons only. Anyone using this Product should be knowledgeable and trained about the risks involved with measuring voltage, especially in an industrial setting, and the importance of taking safety precautions and of testing the Product before and after using it to ensure that it is in good working condition.



The test buzzer has to be placed out of children's reach.

## 3 Instruction

### 3.1 Bringing into service

Before bringing the test buzzer into service you have to insert a 9 V block battery (IEC 6 F 22). Proceed as indicated in 4.1.

### 3.2 Continuity check

The test buzzer permits a simple and fast continuity check by recognizing a closed circuit and giving off an acoustic signal. Thanks to that one doesn't have to take a look at the test buzzer during the check. The acoustic signals sound different when there is a different resistance value. In addition to the acoustic signal continuity of a closed circuit is indicated optically by an LED. This can be very useful when working in a loud environment. The strength of the luminous diode depends also on the resistance value.

Proceed as indicated below:

- Connect the test terminals with the testing object at the two points you want to check.
- If there is continuity you will hear the acoustic signal and the LED lights up.



Make sure that the object under test is in a tensionless state and do not use the test buzzer around wet environments. Additionally you have to make sure that the measuring lines are in a flawless condition.



The test buzzer confirms continuity with an acoustic signal of 70 dB(a) at a distance of 22 cm.

## 4 Maintenance

When the test buzzer is used according to the instruction manual no particular maintenance is required. It is still possible that the test buzzer gets dirty from time to time. If this is the case the battery box can be cleaned with a moist towel and a little bit of mild household cleaner.

### 4.1 Battery change

After some time of use the battery needs to be changed. This will be recognized when the test buzzer doesn't work flawlessly anymore.

After you have disconnected the test buzzer from all the measuring circuits, proceed as indicated below:

1. Open the battery box as showed on the picture below.
2. Remove the old battery and insert the new 9 V block battery (IEC 6 F 22) poled correctly.
3. Close the battery box.



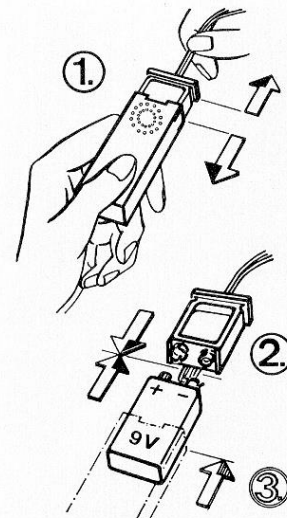
Dispose the old battery appropriately.



The battery should be removed if the test buzzer is not being used during a longer period of time.

## 5 Technical data

Currant over test terminal	75 $\mu$ A (600 k $\Omega$ )
Voltage over test terminal	5 V
Resistance test range	0 - 1 M $\Omega$
Protected against external voltage up to	500 V AC
Intermittent alarm by alternating voltage	Yes
LED visual indication	Yes
Battery	9 V (IEC 6 F 22)
Length of test cable	1 m
Temperature range	-5°C to +50°C
Life expectancy	10 years



Sign of conformity, approves compliance of the valid EMC directive (2014/30/EU). The device is in compliance with the following standards: EN ISO 12100, EN 60204-1, EN 61000-6-2, EN 61000-6-4, low voltage directive (2014/35/EU)

## **EC Declaration of Conformity** **(Directive 2006/42/EG, Annex II A)**

The producer: EMCT Swiss-ConnTec SA, Grubenstrasse 7a, CH-3322 Schönbühl  
herewith declares, that the following device:

**EMCT Electronic test buzzer / RPX 51-HL / 10-4-0410**

is in conformity with the essential requirements of security and health of the machinery  
directive 2006/42/EG Annex I.

The device is in conformity with the following additional directives:

**Low voltage directive 2014/35/EU**  
**EMC directive 2014/30/EU**

The following harmonised standards were applied:

**EN ISO 12100; EN 60204-1; EN 61000-6-2; EN 61000-6-4**

Authorized representative for the composition of the technical documents:

**Christoph Müller**  
**Grubenstrasse 7a**  
**CH-3322 Schönbühl**

According to the needs of a national agency the technical documents will be transmitted as  
an electronic file.

Schönbühl, 21.01.2015

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